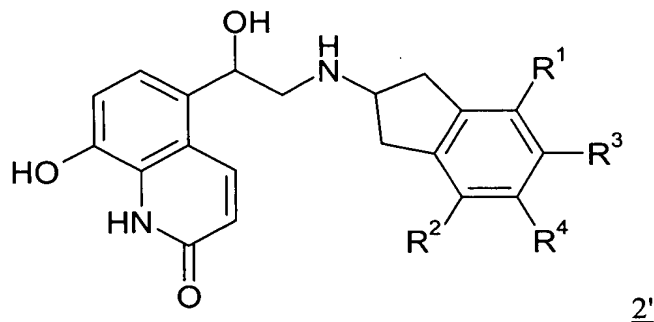


Patent Claims

- 1) A composition comprising one or more salts of tiotropium **1** and one or more pharmacologically acceptable salts of a compound of formula **2'**

5



wherein

R^1 and R^2 which may be identical or different denote hydrogen or C₁-C₄-alkyl;

R³ and R⁴ which may be identical or different denote hydrogen, C₁-C₄-alkyl, -O-C₁-C₄-alkyl, -C₁-C₄-alkylene-O-C₁-C₄-alkyl or R³ and R⁴ together denote one of the bridging groups -C₁-C₄-alkylene- or -O-C₁-C₄-alkylene-O-; together with a pharmaceutically acceptable carrier.

- 2) The composition according to claim 1 wherein the one or more salts of tiotropium 1 is in the form of the chloride, bromide, iodide, methanesulphonate, paratoluene sulphonate or methyl sulphate.
- 3) The composition according to claim 1 wherein, for the compound of formula 2',
R¹ and R² which may be identical or different denote hydrogen, methyl or ethyl;
R³ and R⁴ which may be identical or different denote hydrogen, methyl, ethyl, propyl, butyl, methoxy, ethoxy, methoxymethyl, or methoxyethyl, or R³ and R⁴ together denote one of the bridging groups propylene, butylene, -O-ethylene-O- or -O-propylene-O-.

- 4) The composition according to claim 1 wherein the one or more salts of tiotropium 1 and the one or more pharmacologically acceptable salts of compound 2' are either present together in a single preparation or are contained in two separate preparations.
- 5 5) The composition according to claim 4 wherein the weight ratios of 1 to 2 are in the range from 1:300 to 30:1.
- 6) The composition according to claim 4 wherein a single application corresponds to a dosage of the combination of active substances 1 and 2 of 0.01 to 10000µg.
- 10 7) The composition according to claim 4 that it is in the form of a formulation suitable for inhalation.
- 8) The composition according to claim 7 wherein the form is selected from the group
15 consisting of inhalable powders, propellant-containing metering aerosols and propellant-free inhalable solutions or suspensions.
- 9) The composition according to claim 8 comprising an inhalable powder which contains 1 and 2 in admixture with suitable physiologically acceptable excipients
20 selected from the group consisting of monosaccharides, disaccharides, oligo- and polysaccharides, polyalcohols, salts, and mixtures of these excipients.
- 10) The composition according to claim 9 wherein the excipient has a maximum average particle size of 250µm.
- 25 11) The composition according to claim 9 contained in a capsule.
- 12) The composition according to claim 8 in the form of an inhalable powder consisting essentially of active substances 1 and 2.
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- 13) The composition according to claim 8 in the form of a propellant-containing inhalable aerosol comprising active substances 1 and 2 in dissolved or dispersed form.
- 14) The composition according to claim 8 in the form of a propellant-free inhalable
5 solution or suspension comprising water, ethanol or a mixture of water and ethanol as a solvent.
- 15) A method for treating inflammatory or obstructive diseases of the respiratory tract comprising the administration to a patient of a therapeutically effective amount of the
10 composition according to claim 1.